

ACROSS – Centre of Research Excellence for Advanced Cooperative Systems

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1. Project Fact Sheet

- Total budget: 3.755.660,00 €
- EC contribution: 3.351.776,00 €
- Duration: 1.10.2011 – 31.03.2015
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2. Global Objective

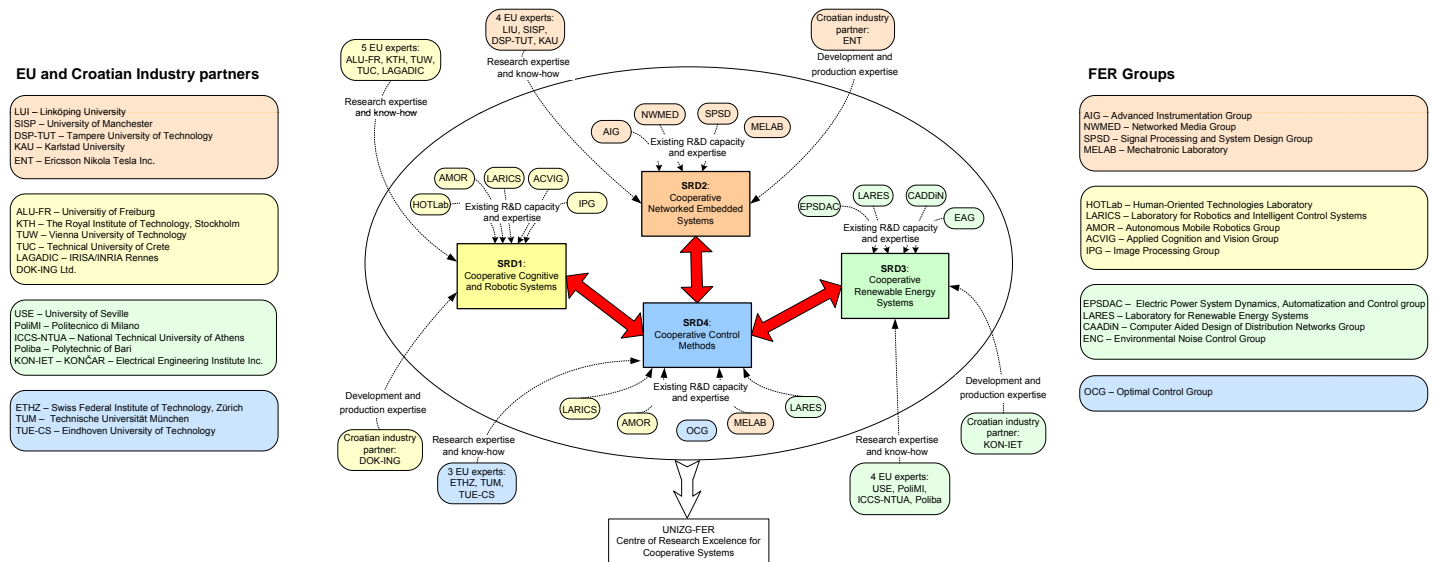
The ACROSS project aims to unlock and strengthen research potential of the Faculty of Electrical Engineering and Computing at the University of Zagreb (UNIZG-FER) for the benefit of national and EU community. The Global Objective is to create a Centre of Research Excellence for Advanced Cooperative Systems within UNIZG-FER.

The Centre will be at the forefront of research and development of novel methodologies and advanced engineering approaches for cooperative systems. It will act as a point of contact between academia and industry, providing an infrastructure for scientific exchange in the area of cooperative systems related to robotics, networked embedded systems and renewable energy systems.

5. Expected Impacts

- **Better integration of the UNIZG-FER in the European Research Area.** Strategic partnership will be built by utilising strong expertise of the EU experts and partnering research organisations involved in ACROSS through intensive exchange of know-how.
- **Increased RTD capacity and capability as well as the quality of research carried out at the UNIZG-FER.** The RTD capacity and capability as well as the overall quality of research will be significantly upgraded by: (i) reinforcing human potential and research infrastructure, (ii) improving research management and (iii) unifying the RTD activities at UNIZG-FER in the domains relevant for ACROSS.
- **Increased contribution to Croatian economic and social development.** ACROSS will have strong impact on Croatian economic and social development by offering information and services to all interested stakeholders (R&D groups, end-user community, large industry and SMEs, governmental bodies) and general public.
- **Increased participation of the UNIZG-FER in EU-level projects.** ACROSS will create a stimulating environment for all involved entities from the EU and Croatia for future multilateral collaboration at EU level.

3. ACROSS Project Concept



4. Work Plan

The ACROSS Work Plan implements a coherent set of measures for execution of the project's global objectives:

- Recruitment of a project manager;
- Recruitment of 18 researchers;
- Upgrading research equipment and establishing three new interdepartmental laboratories;
- Exchange of know-how and experience with 16 leading EU centres and 3 Croatian industrial partners;
- Organisation of workshops and conferences;
- Intensive dissemination and promotional activities;
- Ex-post evaluation of research potential by 4 independent experts chosen by the EC.

6. Strategic Research Domains

The research activities of the Centre focus on four major Strategic Research Domains:

- Cooperative Cognitive and Robotic Systems;
- Cooperative Networked Embedded Systems;
- Cooperative Renewable Energy Systems;
- Cooperative Control Methods.

Possible applications of these advanced cooperative systems are numerous: advanced flexible manufacturing, renewable and sustainable energy, home and office automation, transport, logistics, environmental monitoring, healthcare, security and surveillance, human augmentation etc.